

# COPY

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Toshiki NANKO et al.

Serial No.: 08/930,271

Group Art Unit: 3306

Filed: Septmeber 29, 1997

Examiner: Not Yet Assigned

For: ABSORBENT FOR REMOVING SUBSTANCES RELATED TO MALADY IN BODY  
FLUID, METHOD FOR REMOVING THE SAME, DEVICE FOR BODY FLUID  
PURIFICATION AND SYSTEM FOR BODY FLUID PURIFICATION

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR 1.97(b)

Assistant Commissioner  
for Patents  
Washington, D.C. 20231

December 30, 1997

Sir:

The attention of the Patent and Trademark Office is hereby  
directed to the documents listed on the attached Form PTO-1449.  
One copy of each document is attached.

No fee or certification is required in connection with this  
Information Disclosure Statement, since it is being submitted prior  
to the last of (1) issuance of a first official action on the  
merits and (2) expiration of the three month period following  
filing of the above-captioned application.

U.S. Patent Appln. S.N. 08/930,271  
INFORMATION DISCLOSURE STATEMENT  
Attny. Dkt. No. ASH-022

PATENT

Documents UA to UC and FF to FJ were cited in the International Search Report (refer to the copy of the search report which is part of the international publication (W097/27889) of the present application, a copy of which is being filed concurrently herewith). Please note an Examiner's obligation to consider documents cited in the International Search Report prepared by the JPO (refer to MPEP §1893.03(g)).

Documents FA and DA to DH are described in the specification of the present application as follows:

FA (JP 6-312 017 A) is described on page 6, lines 29 to 34,  
DA is described on page 2, lines 9-16,  
DB is described on page 3, line 33 to page 4, line 4,  
DC is described on page 4, lines 4-8,  
DD is described on page 4, lines 12-33,  
DE is described on page 5, lines 5-11,  
DF is described on page 5, lines 12-20,  
DG is described on page 6, line 31 to page 7, line 6, and  
DH is described on page 6, lines 7 to 17.

U.S. Patent Appln. S.N. 08/930,271  
INFORMATION DISCLOSURE STATEMENT  
Attny. Dkt. No. ASH-022

PATENT

Documents FB, FD, and FG are not in the English language. However, each non-English document corresponds to English language documents as follows:

document FB (JP 8-257 398 A) corresponds to document

FC (EP 0 723 794 A1),

document FD (JP 63-117 039 A) corresponds to document

FE (EP 0 265 924 A2), and

document FG (JP 63-99 875 A) corresponds to document UC.

The attention of the Office is also directed to pending U.S. Patent Application No. 08/590,599. This application corresponds to documents FB and FC.

Documents DJ, DK, DN and DO are submitted in the English language. Documents DI, DL and DM are not in the English language, but are submitted with a partial English language translation of relevant portions and therefore comply with the requirements of 37 C.F.R. §1.98.

**PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Toshiki NANKO et al.

Continuation in Part Application of  
Serial Number: 08/930,271

Filed: July 22, 2003

For: DEVICE FOR BODY FLUID PURIFICATION AND SYSTEM FOR BODY FLUID  
PURIFICATION

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. 1.97(b)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

July 22, 2003

Sir:

The attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached Form PTO-1449.

No fee or certification is required in connection with this Information Disclosure Statement, since it is being submitted prior to the last of (1) issuance of a first official action on the merits and (2) expiration of the three month period following filing of the above-captioned application.

These documents are of record in parent application Serial No.

CONTINUATION IN PART APPLICATION OF S.N. 08/930,271  
INFORMATION DISCLOSURE STATEMENT

**PATENT**

08/930,271, filed September 29, 1997.

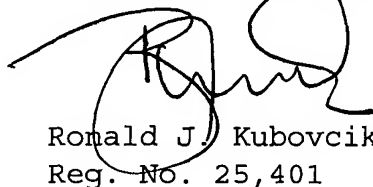
Documents UA to UC, FA to FJ and DA to DO were cited in the Information Disclosure Statement filed on December 30, 1997. A copy of each of an initialed PTO-1449 and the Information Disclosure Statement filed December 30, 1997, are enclosed.

Document UD was cited in the Office Action dated September 25, 1998. A copy of Notice of References Cited (PTO-892 attached to Paper No. 5) is enclosed.

The Commissioner is authorized to charge our Deposit Account No. 111833 for any fee which is deemed by the Patent and Trademark Office to be required to effect consideration of this statement.

Respectfully submitted,

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CONTINUATION IN PART APPLICATION OF S.N. 08/930,271  
INFORMATION DISCLOSURE STATEMENT

**PATENT**

Attachments: PTO-1449  
International Search Report  
Copy of PTO-892 attached to Paper No. 5  
Copy of IDS filed December 30, 1997 and initialed  
PTO-1449

U.S. Patent Appln. S.N. 08/930,271  
INFORMATION DISCLOSURE STATEMENT  
Attny. Dkt. No. ASH-022

PATENT

The Commissioner is authorized to charge our Deposit Account  
No. 11-1833 for any fee which is deemed by the Patent and Trademark  
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Respectfully submitted,

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Attachments: PTO-1449  
28 Documents  
International Search Report

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## Notice of References Cited

Application No.

08/930,271

Applicant(s)

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Examiner

I. Cinti

Group Art Unit

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Page 1 of 1

### U.S. PATENT DOCUMENTS

*	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
A	5,700,372	12/1997	Takesawa et al.	210	500,23
B					
C					
D					
E					
F					
G					
H					
I					
J					
K					
L					
M					

### FOREIGN PATENT DOCUMENTS

*	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
N						
O						
P						
Q						
R						
S						
T						

### NON-PATENT DOCUMENTS

*	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
U		
V		
W		
X		

\* A copy of this reference is not being furnished with this Office action.  
(See Manual of Patent Examining Procedure, Section 707.05(a).)



<p>INFORMATION DISCLOSURE STATEMENT</p> <p>PTO-1449 (Page 1 of 2)</p>	Atty. Docket No. ASH-047-039	Serial No. Not Yet Assigned
	Applicant: Toshiki NANKO et al.	
	Filing Date: July 22, 2003	Group: Not Yet Assigned

U.S. PATENT DOCUMENTS

Examiner's Initial		Document No.	Date	Name	Class	Sub Class	Filing Date If appropriate
	UA	4,476,023	10/09/84	Horikoshi et al.	210	446	
	UB	4,770,774	09/13/88	Ida et al.	210	259	
	UC	4,721,730	01/26/88	Furuyoshi et al.	521	53	
	UD	5,700,372	12/23/97	Takesawa et al.	210	500.23	

FOREIGN PATENT DOCUMENTS

Examiner's Initial		Document No.	Date	Country	Translation Yes/No/Partial
	FA	6-312 017 A	11/08/94	JP	Abstract
	FB	8-257 398 A	10/08/96	JP	No
	FC	0 723 794 A	07/31/96	EP	
	FD	63-117039 A	05/21/88	JP	No
	FE	0 265 924 A2	05/04/88	EP	
	FF	6-312 134 A	11/08/94	JP	Partial
	FG	63-99 875 A	05/02/88	JP	No
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	FI	0 247 592 A2	12/02/87	EP	
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OTHER DOCUMENTS

Examiner's Initial		
	DA	F. Gejyo et al., "A New Form of Amyloid Protein Associated with Chronic Hemodialysis was Identified as $\beta_2$ -Microglobulin", <u>Biochemical and Biophysical Research Communications</u> , Vol. 129, No. 3, pp. 701-706 (1985).
	DB	M. Baggiolini et al., "CC Chemokines in Allergic Inflammation", <u>Immunology Today</u> , Vol. 15, No. 3, pp. 127-133, (1994).
	DC	J. Chihara, <u>Clinical Immunology</u> , Vol. 27 (Suppl. 16): pp. 162-171, 1995 (with partial English translation).
	DD	K. Matsushima, <u>Clinical Immunology</u> , Vol. 27 (Suppl. 16): pp. 147-154, 1995 (with partial English translation).

<p>INFORMATION DISCLOSURE STATEMENT</p> <p>PTO-1449 (Page 2 of 2)</p>	Atty. Docket No. ASH-047-039	Serial No. Not Yet Assigned
	Applicant: Toshiki NANKO et al.	
	Filing Date: July 22, 2003	Group: Not Yet Assigned

Examiner's Initial		
	DE	N. Sekido et al., "Prevention of Lung Reperfusion Injury in Rabbits by a Monoclonal Antibody Against Interleukin-8", <u>Nature</u> , 365, pp. 654-657 (1993).
	DF	S. Endo et al., <u>Intensive &amp; Critical Care Medicine</u> , 4(12), pp. 1357-1365, 1992 (with partial English translation).
	DG	H. Inoue et al., "Expression of Inflammatory Cytokines and Adhesion Molecules in Haemodialysis-associated Amyloidosis", <u>Nephrol Dial Transplant</u> , 10, pp. 2077-2082 (1995)
	DH	K. Matsushima, "Property and Relationship to Inflammatory Diseases", <u>Menekiyakuri</u> , Vol. 12, No. 1, pp. 15-21, 1994.
	DI	<u>The Cytokine Data Manual</u> , Edit. by Dept. of Microbiology, Kyoto Prefectural University of Medicine, Nankodo, pp. 105-108, 1995 (with partial English translation).
	DJ	A. Leo et al., "Partition Coefficients and Their Uses", <u>Chemical Reviews</u> , Vol. 71, No. 6, pp. 525-616 (1971).
	DK	R. Rekker, "The Hydrophobic Fragmental Constant", <u>Pharmacochemistry Library</u> , Elsevier Sci. Pub. Comp., Vol. 1, Chp. 3, pp. 39-107 (1977).
	DI	S. Endo et al., <u>Intensive &amp; Critical Care Medicine</u> , 6(2), pp. 115-123, 1994 (with partial English translation).
	DM	H. Hirasawa et al., <u>Intensive &amp; Critical Care Medicine</u> , 6(2), pp. 105-114, 1994 (with partial English translation).
	DN	S. Furuyoshi et al., "New Absorbents for Extracorporeal Removal of B <sub>2</sub> -Microglobulin", <u>Amyloid and Amyloidosis</u> , Edit. by T. Isobe et al., Plenum Publishing Corp., pp. 629-634 (1988).
	DO	F. Gejyo et al., "Long-Term Clinical Evaluation of an Adsorbent Column (BM-01) of Direct Hemoperfusion Type for $\beta_2$ -Microglobulin on the Treatment of Dialysis-Related Amyloidosis", <u>Artificial Organs</u> , 19(12), pp. 1222-1226 (1995).

Examiner:	Date Considered:
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RJK/sb